Subject	Year	Month	Balcarras
Mathematics	10	November	From strength to strength

Topic:

Expressions and substitution into formulae	5 lessons

Content (Intent)

Prior Learning	**Future Learning**
Year 10 Algebra the basics October	Year 10 Solving equations March

Objectives

- Write expressions to solve problems representing a situation;
- Substitute positive and negative numbers into simple algebraic expressions;
- Substitute positive and negative numbers into expressions involving brackets and powers;
- Derive a simple formula, including those with squares, cubes and roots;
- Substitute numbers into a word formula or an algebraic formula;

Pedagogical notes (implementation)	**How will understanding be assessed & recorded (Impact)**
Use formulae from mathematics and other subjects, expressed initially in words and then using letters and symbols. Include substitution into the kinematics formulae given on the formula sheet, i.e. $v = u + at$, $v^2 - u^2 = 2as$, and $s = ut + \frac{1}{2} at^2$.	**End of half term** Dec **End of Year** Year 10 exams in April
	How can parents help at home?
	MathsWatch clips (Qualification KS4) 7, 95, 137

Further reading/discussion

Reading / Enrichment http://passyworldofmathematics.com/real-world-mathematics-formulas/ http://passyworldofmathematics.com/weight-training-mathematics/	**Literacy**	**Numeracy Links**	**Careers Links** Builder cryptologist astronomer chemist physicist engineer architect